

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-208069
(43)Date of publication of application : 03.08.2001

(51)Int.Cl.

F16C 33/10
C10M105/32
H02K 5/16
H02K 7/08
// C10N 30:00
C10N 30:10
C10N 40:02
C10N 40:18

(21) Application number : 2000-014755

(71)Applicant : NSK LTD

(22) Date of filing : 24.01.2000

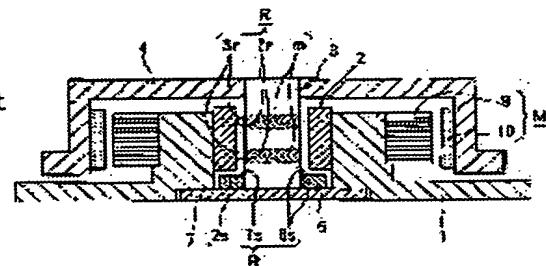
(72)Inventor : KAMIMURA KAZUHIRO
SAKATANI IKUNORI
DENPO KOUTETSU

(54) SPINDLE MOTOR WITH LIQUID BEARING

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a spindle motor with liquid bearing in which static electricity is hard to be charged in a carried disc, power consumption is low, and reliability for prolonged operation is high.

SOLUTION: As a lubricating liquid for the spindle motor with liquid bearing comprising of a shaft 3 and a sleeve 2 relatively rotatable against the shaft through a radial liquid bearing R and a thrust liquid bearing S, such lubricating oil has been used to which at least 0.1 to 10 percent weight of antistat and 0.1 to 5 percent weight of oxidation inhibitor have been added. By controlling the amount of such additives as to give electroconductivity to the lubricating liquid and to prevent oxidization of the same, an increase of viscosity and a restraint of evaporation loss can be achieved with properties of electroconductivity and oxidation resistance being granted.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of

rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office